

## ABSTRACT OF THE DISCLOSURE

A solid-state image pickup device and a pixel defect testing method thereof are disclosed. A solid-state image pickup device including: a pixel unit having a plurality of unit pixels that perform photoelectric conversion; a driving circuit for driving the pixel unit to control output of a pixel output signal; an output signal processing circuit for subjecting the pixel output signal outputted from the pixel unit according to the driving of the driving circuit to predetermined signal processing, and outputting a resulting pixel output signal; a pixel defect determining circuit for capturing the pixel output signal outputted from the pixel unit according to the driving of the driving circuit, and determining a pixel defect by comparing the pixel output signal with a predetermined reference signal; and a timing generator for supplying a predetermined operating pulse to the driving circuit, the output signal processing circuit, and the pixel defect determining circuit.